

MMM	MMM	TTTTTTTTTTTTTTTT	AAAAAAAAA	AAAAAAAAA	CCCCCCCCCCCC	PPPPPPPPPPPP	
MMM	MMM	TTTTTTTTTTTTTTTT	AAAAAAAAA	AAAAAAAAA	CCCCCCCCCCCC	PPPPPPPPPPPP	
MMM	MMM	TTTTTTTTTTTTTTTT	AAAAAAAAA	AAAAAAAAA	CCCCCCCCCCCC	PPPPPPPPPPPP	
MMMMMM	MMMMMM	TTT	AAA	AAA	CCC	PPP	PPP
MMMMMM	MMMMMM	TTT	AAA	AAA	CCC	PPP	PPP
MMMMMM	MMMMMM	TTT	AAA	AAA	CCC	PPP	PPP
MMM	MMM	TTT	AAA	AAA	CCC	PPP	PPP
MMM	MMM	TTT	AAA	AAA	CCC	PPP	PPP
MMM	MMM	TTT	AAA	AAA	CCC	PPP	PPP
MMM	MMM	TTT	AAA	AAA	CCC	PPP	PPP
MMM	MMM	TTT	AAA	AAA	CCC	PPPPPPPPPPPP	
MMM	MMM	TTT	AAA	AAA	CCC	PPPPPPPPPPPP	
MMM	MMM	TTT	AAA	AAA	CCC	PPPPPPPPPPPP	
MMM	MMM	TTT	AAAAAAAAAAAAAAAA	AAAAAAAAAAAAAAAA	CCC	PPP	
MMM	MMM	TTT	AAAAAAAAAAAAAAAA	AAAAAAAAAAAAAAAA	CCC	PPP	
MMM	MMM	TTT	AAAAAAAAAAAAAAAA	AAAAAAAAAAAAAAAA	CCC	PPP	
MMM	MMM	TTT	AAA	AAA	CCC	PPP	
MMM	MMM	TTT	AAA	AAA	CCC	PPP	
MMM	MMM	TTT	AAA	AAA	CCC	PPP	
MMM	MMM	TTT	AAA	AAA	CCC	PPP	
MMM	MMM	TTT	AAA	AAA	CCC	PPP	
MMM	MMM	TTT	AAA	AAA	CCC	PPP	
MMM	MMM	TTT	AAA	AAA	CCCCCCCCCCCC	PPP	
MMM	MMM	TTT	AAA	AAA	CCCCCCCCCCCC	PPP	
MMM	MMM	TTT	AAA	AAA	CCCCCCCCCCCC	PPP	

AAAAAA AAAAAA AA AA AA AA AA AA AA AA AA AA AA AA AAAAAAAAAA AAAAAAAAAA AA AA AA AA AA AA AA AA	CCCCCCCC CCCCCCCC CC CC CC CC CC CC CC CC CCCCCCCC CCCCCCCC	PPPPPPPP PPPPPPPP PP PP PP PP PP PP PP PP PPPPPPPP PPPPPPPP PP PP PP PP PP	CCCCCCCC CCCCCCCC CC CC CC CC CC CC CC CC CCCCCCCC CCCCCCCC	TTTTTTTTTT TTTTTTTTTT TT TT TT TT TT TT TT TT TT TT TT	RRRRRRRR RRRRRRRR RR RR RR RR RR RR RR RR RRRRRRRR RRRRRRRR RR RR RR RR RR RR RR RR RR RR
LL LL LL LL LL LL LL LL LL LL LL LL LL LLLLLLLLLL LLLLLLLLLL	IIIIIII IIIIIII II II II II II II II II II II II IIIIIII IIIIIII	SSSSSSSS SSSSSSSS SS SS SS SS SSSSSS SSSSSS SS SS SS SS SS SSSSSSSS SSSSSSSS				

```
0001 0
0002 0 MODULE ACPCTR (LANGUAGE (BLISS32) ,
0003 0 IDENT = 'V04-000'
0004 0 ) =
0005 1 BEGIN
0006 1
0007 1 *****
0008 1 *
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0026 1 *
0027 1 *
0028 1 *****
0029 1
0030 1 ++
0031 1
0032 1 FACILITY: MTAACP
0033 1
0034 1 ABSTRACT:
0035 1 This module handles acp control functions.
0036 1
0037 1 ENVIRONMENT:
0038 1
0039 1 Starlet operating system, including privileged system services
0040 1 and internal exec routines.
0041 1
0042 1 --
0043 1
0044 1
0045 1
0046 1 AUTHOR: D. H. Gillespie, CREATION DATE: 09-JUL-1977
0047 1
0048 1 MODIFIED BY:
0049 1
0050 1 V03-005 MMD0236 Meg Dumont, 4-Feb-1984 15:13
0051 1 Add support for FIBSC_CLSEREXCP when set with IOS_ACPCONTROL.
0052 1
0053 1 V03-004 MMD0171 Meg Dumont, 9-May-1983 15:12
0054 1 Fix to make USER_STATUS defined consistently within module
0055 1
0056 1 V03-003 MMD0149 Meg Dumont, 26-Apr-1983 8:51
0057 1 Change references to 80 to the symbol ANSI_LBLSZ
```



```
58 0058 1
59 0059 1
60 0060 1
61 0061 1
62 0062 1
63 0063 1
64 0064 1
65 0065 1
66 0066 1
67 0067 1
68 0068 1
69 0069 1
70 0070 1
71 0071 1
72 0072 1
73 0073 1
74 0074 1
75 0075 1
76 0076 1
77 0077 1
78 0078 1
79 0079 1
80 0080 1
81 0081 1
82 0082 1
83 0083 1
84 0084 1
85 0085 1
86 0086 1
87 0087 1
88 0088 1
89 0089 1
90 0090 1
91 0091 1
92 0092 1
93 0093 1
94 0094 1
95 0095 1
96 0096 1
97 0097 1
98 0098 1
99 0099 1
100 0100 1
101 0101 1
102 0102 1
103 0103 1
104 0104 1
105 0105 1
106 0106 1
107 0490 1
108 0491 1
109 0492 1
110 0493 1
111 0494 1
112 0495 1
113 0496 1
114 0497 1

V03-002 MMD0001 Meg Dumont, 3-Jan-1983 15:22
Added a call to stop access to a file if the trailer labels
have been read.

V03-001 STJ0309 Steven T. Jeffreys 1-Jun-1982
Added handler for REMOUNT control function. It's a NOP.

V02-011 DMW00077 David Michael Walp 8-Feb-1982
Stored account and user name during mount time

V02-010 DMW00034 David Michael Walp 15-Sep-1981
Fixed Cancel I/O vs Dismount race condition

V02-009 DMW00024 David Michael Walp 20-Jul-1981
Change to RET_FREE_PAGE to not contract region P0 every time
space is returned.

V02-008 DMW00009 David Michael Walp 14-Mar-1981
Changed calculation of CCB address

V02-007 DMW00001 David Michael Walp 11-Nov-1980
New BLISS compiler, FUNCTION declaration changed from
BBLOCK to BLOCK. Old compiler used to give a longword
with a declaration of 'BBLOCK [1]'.

V02-006 REFORMAT Maria del C. Nasr 30-Jun-1980

V02-005 MCN0017 Maria del C. Nasr 18-Jun-1980
Add a call to START_VIO after completing the next volume
write. This is part of the fix for multivolume processing,
in which a new volume should be requested when the EOT is
sensed in writing the header labels, and not wait for the
data to be written.

V02-004 SPR27361 Maria del C. Nasr 10-Jun-1980
Add a call to START_VIO after completing the next volume
read. This is part of the general fix which delays IO
posting until all IO is successfully completed.

A0103 MCN0007 Maria del C. Nasr 13-Nov-1979 19:35
Set single directory structured device bit (DEV$M_SDI)

**
LIBRARY 'SYS$LIBRARY:LIB.L32';
REQUIRE 'SRC$:MTADEF.B32';

FORWARD ROUTINE
MTA_ACPCNTRL : NOPRES NOVALUE, control function dispatch
MTA_MOUNT : NOPRES NOVALUE, mount function
CANCEL_IO : COMMON_CALL NOVALUE, cancel i/o control
DO_CANCEL : COMMON_CALL NOVALUE, do actual cancelation of io
MOUNT : COMMON_CALL NOVALUE, mount control function, kernel mode
STALL : COMMON_CALL NOVALUE, stall cancel
```



```
: 115      0498 1      TERMINATE_VOL: COMMON_CALL NOVALUE;      ! terminate mount volume request
: 116      0499 1
: 117      0500 1      EXTERNAL ROUTINE
: 118      0501 1      CANCEL_OP_REPLY      : COMMON_CALL,      ! cancel reply from operator
: 119      0502 1      IO_DONE,      ! complete io
: 120      0503 1      NEXT_VOL_READ      : LSNEXT_VOL_READ NOVALUE,      ! get next vol for read
: 121      0504 1      NEXT_VOL_WRITE     : LSNEXT_VOL_WRIT NOVALUE,      ! get next vol for write
: 122      0505 1      READ_BLOCK : COMMON_CALL,      ! read a tape block
: 123      0506 1      RET_FREE_PAGE      : COMMON_CALL,      ! return virtual page to free list
: 124      0507 1      RETURN_ACL_ERR     : COMMON_CALL,      ! return blocked virtual io in error
: 125      0508 1      SEND_ERRLOG,
: 126      0509 1      SPACE_TM : COMMON_CALL,      ! space tape mark
: 127      0510 1      START_VIO : COMMON_CALL,      ! start up virtual io
: 128      0511 1      STOP_VIO : COMMON_CALL,      ! Disallow VIO's
: 129      0512 1      SYSS$IOW : ADDRESSING_MODE (ABSOLUTE),
: 130      0513 1      ZERO_CHANNEL      : COMMON_CALL;      ! zero channel
: 131      0514 1
: 132      0515 1      EXTERNAL
: 133      0516 1      SCH$GL_PCBVEC      : REF VECTOR ADDRESSING_MODE (ABSOLUTE),
: 134      0517 1      CURRENT_UCB : REF BBLOCK,
: 135      0518 1      CURRENT_WCB : REF BBLOCK,      ! address of current window control block
: 136      0519 1      HDR1 : REF BBLOCK,      ! hdr1(eof1) label
: 137      0520 1      IO_CHANNEL,
: 138      0521 1      IO_PACKET : REF BBLOCK,      ! address of current io packet
: 139      0522 1      USER_STATUS : VECTOR [2];      ! address of user status
: 140      0523 1
```

```
142 0524 1 GLOBAL ROUTINE MTA_ACPCNTRL : NOPRES NOVALUE =
143 0525 1
144 0526 1 ++
145 0527 1
146 0528 1 FUNCTIONAL DESCRIPTION:
147 0529 1 This routine handles the acp control function.
148 0530 1
149 0531 1 CALLING SEQUENCE:
150 0532 1 MTA_ACPCNTRL()
151 0533 1
152 0534 1 INPUT PARAMETERS:
153 0535 1 None
154 0536 1
155 0537 1 IMPLICIT INPUTS:
156 0538 1 CURRENT_UCB - address of current unit control block
157 0539 1 CURRENT_VCB - address of current volume control block
158 0540 1 IO_PACKET - address of current io request packet
159 0541 1 QUEUE_HEAD - address of acp queue
160 0542 1
161 0543 1 OUTPUT PARAMETERS:
162 0544 1 None
163 0545 1
164 0546 1 IMPLICIT OUTPUTS:
165 0547 1 LOCAL_FIB - copy of user's fib
166 0548 1
167 0549 1 ROUTINE VALUE:
168 0550 1 None
169 0551 1
170 0552 1 SIDE EFFECTS:
171 0553 1 None
172 0554 1
173 0555 1 --
174 0556 1
175 0557 2 BEGIN
176 0558 2
177 0559 2 EXTERNAL REGISTER
178 0560 2 COMMON_REG;
179 0561 2
180 0562 2 EXTERNAL ROUTINE
181 0563 2 ISSUE_IO : L$ISSUE_IO, ! Send an io to the tape drive
182 0564 2 GET_FIB : COMMON_CALL, ! get user's file information block
183 0565 2 POSITION_TO_END : COMMON_CALL, ! position volume set to end
184 0566 2 SPACE_IN_FILE : COMMON_CALL, ! space within file
185 0567 2 REWIND_FILE : COMMON_CALL, ! rewind file
186 0568 2 REWIND_VOL_SET : COMMON_CALL; ! rewind volume set
187 0569 2
188 0570 2 EXTERNAL
189 0571 2
190 0572 2 ! address of current unit control block
191 0573 2
192 0574 2 CURRENT_UCB : REF BBLOCK,
193 0575 2 IO_PACKET : REF BBLOCK, ! address of current io request
194 0576 2 ! packet
195 0577 2 QUEUE_HEAD : REF BBLOCK; ! address of acp queue head
196 0578 2
197 0579 2 LOCAL
198 0580 2 FIB : REF BBLOCK, ! address of copy of user's
```



```
199 0581 2
200 0582
201 0583
202 0584
203 0585
204 0586
205 0587
206 0588
207 0589
208 0590
209 0591
210 0592
211 0593
212 0594
213 0595
214 0596
215 0597
216 0598
217 0599
218 0600
219 0601
220 0602
221 0603
222 0604
223 0605
224 0606
225 0607
226 0608
227 0609
228 0610
229 0611
230 0612
231 0613
232 0614
233 0615
234 0616
235 0617
236 0618
237 0619
238 0620
239 0621
240 0622
241 0623
242 0624
243 0625
244 0626
245 0627
246 0628
247 0629
248 0630
249 0631
250 0632
251 0633
252 0634
253 0635
254 0636
255 0637 2

FUNCTION      : BLOCK [1],
PACKET      : REF BBLOCK;

PACKET = .IO PACKET;
FUNCTION = .PACKET[IRPSW_FUNC];

IF .FUNCTION[IOSV_DMOUNT]
OR
.FUNCTION[IOSV_MOUNT]
OR
.FUNCTION[IOSV_REMOUNT]
THEN
RETURN;

IF NOT .PACKET[IRPSV_VIRTUAL]
THEN
BEGIN
KERNEL_CALL(CANCEL_IO);

IF (.CURRENT_VCB[VCBSV_WAIMOUVOL]
AND
NOT CANCEL_OP_REPLY())
OR
.CURRENT_VCB[VCBSV_WAIUSRLBL]
THEN
BEGIN
ERROR(SS$ CANCEL);
KERNEL_CALL(DO_CANCEL);
END;

! Stall cancel until rewind or mount vol complete so cancels are not
! continuously issued.

IF .CURRENT_VCB[VCBSV_WAIREWIND]
OR
.CURRENT_VCB[VCBSV_WAIMOUVOL]
THEN
KERNEL_CALL(STALL);

RETURN;

END;

FIB = GET_FIB(.BBLOCK[.PACKET[IRPSL_SVAPTE], AIB$L_DESCRIPTOR]);

IF .CURRENT_VCB[VCBSV_WAIUSRLBL]
THEN
ERR_EXIT(SS$ WAITUSRLBL);

IF .CURRENT_VCB[VCBSV_MUSTCLOSE]
THEN
ERR_EXIT(SS$ MUSTCLOSEFL);

! Allow the user to clear the serious exception from the tape drive
```

```
! file info block
! io function code and
! modifiers
! address of io request packet
```

```
! get address of io packet
! get function code and modifiers
```

```
256 0638 2
257 0639 2
258 0640 2
259 0641 2
260 0642 2
261 0643 2
262 0644 2
263 0645 2
264 0646 2
265 0647 2
266 0648 2
267 0649 2
268 0650 2
269 0651 2
270 0652 2
271 0653 2
272 0654 2
273 0655 2
274 0656 2
275 0657 2
276 0658 2
277 0659 2
278 0660 2
279 0661 2
280 0662 2
281 0663 2
282 0664 2
283 0665 2
284 0666 2
285 0667 2
286 0668 2
287 0669 2
288 0670 2
289 0671 2
290 0672 2
291 0673 2
292 0674 2
293 0675 2
294 0676 2
295 0677 2
296 0678 2
297 0679 2
298 0680 2
299 0681 2
300 0682 2
301 0683 2
302 0684 2
303 0685 2
304 0686 4
305 0687 4
306 0688 4
307 0689 4
308 0690 4
309 0691 4
310 0692 4
311 0693 4
312 0694 4

! by issuing a sensemode, which is effectively a NOP. This gives the
! user the capability to write blocks beyond EOT and before the
! EOY labels. It also allows the user to read blocks beyond the
! EOT and before the EOY labels. The user is never allowed to
! read the EOY labels.

! Please note that the case statement works on the assumption that
! the variables are within a certain range. FIBSC_CLSEREXCP does
! not fall in that range.

IF .FIB[FIBSW_CNTRLFUNC] EQL FIBSC_CLSEREXCP
  THEN
    BEGIN
      ISSUE IO(IO$_SENSEMODE, 0, 0);
      RETURN;
    END;

CASE .FIB[FIBSW_CNTRLFUNC] FROM FIBSC_REWINDVOL TO FIBSC_REWINDFIL OF
  SET
    [FIBSC_REWINDFIL] :
      REWIND_FILE();
    [FIBSC_POSEND] :
      POSITION_TO_END();
    [FIBSC_NEXTVOL] :
      BEGIN
        ! file must be accessed
        !
        IF .CURRENT_WCB EQL 0
          THEN
            ERR_EXIT(SS$_FILNOTACC);

        ! if not in data area, not appropriate time to be doing a next
        ! volume
        !
        IF .CURRENT_VCB[VCB$_TM] NEQ 1
          THEN
            ERR_EXIT(SS$_ILLSEQOP);

        KERNEL_CALL(STOP_VIO);

        IF .CURRENT_WCB[WCB$_V_READ]
          THEN
            BEGIN
              ! read case
              SPACE_TM(1); ! space to trailer record

              IF NOT READ_BLOCK(.HDR1, ANSI_LBLSZ)
                THEN
                  ERR_EXIT(SS$_TAPEPOSLOST);

              IF .HDR1[EO1$_EO1LID] EQL 'EOF1'
                THEN
```


0524
0586
0587
0589
0591
0593
0597
0600

08	00000000G	9F	0000V	5E	DD	00021	PUSHL	SP	:	
	OB	AB		CF	9F	00023	PUSHAB	CANCEL IO	:	
	0000G	CF		03	FB	00027	CALLS	#3, @#SYSS\$CMKRNL	:	0602
		05		02	E1	0002E	BBC	#2, 11(CURRENT_VCB), 4\$:	0604
16	OB	AB		00	FB	00033	CALLS	#0, CANCEL_OP_REPLY	:	
	0000G	CF		50	E9	00038	BLBC	R0, 5\$:	
				04	E1	0003B	BBC	#4, 11(CURRENT_VCB), 6\$:	0606
			0830	8F	B0	00040	MOVW	#2096, USER_STATUS	:	0609
				7E	D4	00047	CLRL	-(SP)	:	0610
				5E	DD	00049	PUSHL	SP	:	
			0000V	CF	9F	0004B	PUSHAB	DO_CANCEL	:	
06	00000000G	9F		03	FB	0004F	CALLS	#3, @#SYSS\$CMKRNL	:	0617
01	OB	AB		03	E0	00056	BBS	#3, 11(CURRENT_VCB), 7\$:	0619
	OB	AB		02	E0	0005B	BBS	#2, 11(CURRENT_VCB), 7\$:	
				04		00060	RET		:	
				7E	D4	00061	CLRL	-(SP)	:	0621
				5E	DD	00063	PUSHL	SP	:	
			0000V	CF	9F	00065	PUSHAB	STALL	:	
				00B4	31	00069	BRW	22\$:	
			2C	B2	DD	0006C	PUSHL	@44(PACKET)	:	0627
	0000G	CF		01	FB	0006F	CALLS	#1, GET_FIB	:	
04	OB	AB		50	D0	00074	MOVL	R0, FIB	:	
				04	E1	00077	BBC	#4, 11(CURRENT_VCB), 9\$:	0629
04	OB	AB	0950	8F	BF	0007C	CHMU	#2384	:	0631
				06	E1	00080	BBC	#6, 11(CURRENT_VCB), 10\$:	0633
			0948	8F	BF	00085	CHMU	#2376	:	0635
		11	16	A2	B1	00089	CMPW	22(FIB), #17	:	0648
				0B	12	0008D	BNEQ	11\$:	
				7E	7C	0008F	CLRQ	-(SP)	:	0651
				27	DD	00091	PUSHL	#39	:	
				0000G	30	00093	BSBW	ISSUE IO	:	
		5E		0C	C0	00096	ADDL2	#12, SP	:	
				04		00099	RET		:	0650
0089	05	01	16	A2	AF	0009A	CASEW	22(FIB), #1, #5	:	0655
	001B	0015		008F		0009F	.WORD	24\$-12\$,-	:	
		000F		0095		000A7		14\$-12\$,-	:	
								15\$-12\$,-	:	
								23\$-12\$,-	:	
								25\$-12\$,-	:	
								13\$-12\$:	
								25\$:	0711
			0086	31	000AB		BRW		:	0659
	0000G	CF	00	FB	000AE	13\$:	CALLS	#0, REWIND_FILE	:	
				04	000B3		RET		:	
	0000G	CF	00	FB	000B4	14\$:	CALLS	#0, POSITION_TO_END	:	0662
				04	000B9		RET		:	
			0000G	CF	D5	000BA	TSTL	CURRENT_WCB	:	0670
				04	12	000BE	BNEQ	16\$:	
			00AC	8F	BF	000C0	CHMU	#172	:	0672
		01	2E	AB	91	000C4	CMPB	46(CURRENT_VCB), #1	:	0678
				04	13	000C8	BEQL	17\$:	
			02DC	8F	BF	000CA	CHMU	#732	:	0680
				7E	D4	000CE	CLRL	-(SP)	:	0682
				5E	DD	000D0	PUSHL	SP	:	
			0000G	CF	9F	000D2	PUSHAB	STOP VIO	:	
	00000000G	9F		03	FB	000D6	CALLS	#3, @#SYSS\$CMKRNL	:	
		50	0000G	CF	D0	000DD	MOVL	CURRENT_WCB, R0	:	0684
		2F	OB	A0	E9	000E2	BLBC	11(R0), -20\$:	

ACPCTR
V04-000

N 10
16-Sep-1984 02:08:09
14-Sep-1984 12:46:31

VAX-11 Bliss-32 V4.0-742
[MTAACP.SRC]ACPCTR.B32;1

Page 9
(2)

0000G	CF	01	DD	000E6	PUSHL	#1		0687
	7E	01	FB	000E8	CALLS	#1, SPACE_TM		
		50	8F	9A 000ED	MOVZBL	#80, -(SPT)		0689
		0000G	CF	DD 000F1	PUSHL	HDR1		
			02	FB 000F5	CALLS	#2, READ_BLOCK		
			50	E8 000FA	BLBS	R0, 18\$		
		0224	8F	BF 000FD	CHMU	#548		0691
31464F45	8F	0000G	DF	D1 00101 18\$:	CMPL	@HDR1, #826691397		0693
			04	12 0010A	BNEQ	19\$		
		0870	8F	BF 0010C	CHMU	#2160		0695
			0000G	30 00110 19\$:	BSBW	NEXT_VOL_READ		0697
			03	11 00113	BRB	21\$		0684
			0000G	30 00115 20\$:	BSBW	NEXT_VOL_WRITE		0700
			7E	D4 00118 21\$:	CLRL	-(SPT)		0701
			5E	DD 0011A	PUSHL	SP		
		0000G	CF	9F 0011C	PUSHAB	START VIO		
00000000G	9F		03	FB 00120 22\$:	CALLS	#3, @#SYSS\$CMKRNL		0655
				04 00127	RET			0705
			00	FB 00128 23\$:	CALLS	#0, SPACE_IN_FILE		
				04 0012D	RET			
			00	FB 0012E 24\$:	CALLS	#0, REWIND_VOL_SET		0708
				04 00133	RET			
		00E4	8F	BF 00134 25\$:	CHMU	#228		0714
				04 00138	RET			0717

; Routine Size: 313 bytes, Routine Base: \$CODE\$ + 0000

; 336 0718 1

```
0719 1 ROUTINE MOUNT : COMMON_CALL NOVALUE =
0720 1
0721 1 ++
0722 1
0723 1 FUNCTIONAL DESCRIPTION:
0724 1     This routine gets a virtual page for the mounted volume to use
0725 1
0726 1 CALLING SEQUENCE:
0727 1     Mount(), must be called in kernel mode
0728 1
0729 1 INPUT PARAMETERS:
0730 1     None
0731 1
0732 1 IMPLICIT INPUTS:
0733 1     CURRENT_UCB - address of currnet unit control block
0734 1     CURRENT_VCB - address of current volume control block
0735 1
0736 1 OUTPUT PARAMETERS:
0737 1     None
0738 1
0739 1 IMPLICIT OUTPUTS:
0740 1     Virtual page for volume to use
0741 1
0742 1 ROUTINE VALUE:
0743 1     None
0744 1
0745 1 SIDE EFFECTS:
0746 1     None
0747 1
0748 1 --
0749 1
0750 2 BEGIN
0751 2
0752 2 EXTERNAL REGISTER
0753 2     COMMON_REG;
0754 2
0755 2 EXTERNAL ROUTINE
0756 2     GET_FREE_PAGE : COMMON_CALL; ! get free virtual page
0757 2
0758 2 EXTERNAL
0759 2
0760 2     ! address of current unit control block
0761 2
0762 2     CURRENT_UCB : REF BBLOCK;
0763 2
0764 2 LOCAL
0765 2     JIB : REF BBLOCK,
0766 2     PCB : REF BBLOCK,
0767 2     VPAGE : REF BBLOCK; ! address of virtual page for volume set
0768 2
0769 2     ! get virtual page for use by the volume set
0770 2
0771 2 GET FREE PAGE(1, VPAGE);
0772 2 VPAGE[VVP$B_TYPE] = VVP_TYPE;
0773 2 INSQUE(.VPAGE, CURRENT_VCB[VCB$B_VPFL]);
0774 2 VPAGE[VVP$L_STALLIOFL] = VPAGE[VVP$L_STALLIOFL];
0775 2 VPAGE[VVP$L_STALLIOBL] = VPAGE[VVP$L_STALLIOFL];
```



```
: 395      0776 2
: 396      0777 2
: 397      0778 2
: 398      0779 2
: 399      0780 2
: 400      0781 2
: 401      0782 2
: 402      0783 2
: 403      0784 2
: 404      0785 2
: 405      0786 2
: 406      0787 1

CURRENT_UCB[UCB$$_DEVCHAR] = .CURRENT_UCB[UCB$$_DEVCHAR]
OR
(DEV$$_MNT OR DEV$$_DIR OR DEV$$_SDI);

! save the Account and User names
PCB = .SCH$GL PCBVEC [ (IO_PACKET[IRP$$_PID])<0, 16> ];
JIB = .PCB [ PCB$$_JIB ];
CH$MOVE ( VVP$$_USERNAME, JIB [JIB$$_USERNAME], VPAGE [VVP$$_USERNAME] );
CH$MOVE ( VVP$$_ACCOUNT, JIB [JIB$$_ACCOUNT], VPAGE [VVP$$_ACCOUNT] );
END;                                     ! end of page
```

				.EXTRN GET_FREE_PAGE			
				00FC 00000	MOUNT:	.WORD Save R2,R3,R4,R5,R6,R7	: 0719
	5E			04 C2 00002		SUBL2 #4, SP	: 0771
				5E DD 00005		PUSHL SP	
				01 DD 00007		PUSHL #1	
0000G	CF			02 FB 00009		CALLS #2, GET_FREE_PAGE	
	50			6E D0 0000E		MOVL VPAGE, R0	: 0772
0A	A0			02 90 00011		MOVB #2, 10(R0)	
	51	3C		AB 9E 00015		MOVAB 60(R11), R1	: 0773
	61			60 0E 00019		INSQUE (R0), (R1)	
	57			6E D0 0001C		MOVL VPAGE, R7	: 0774
	50	01A4		C7 9E 0001F		MOVAB 420(R7), R0	
	60			50 D0 00024		MOVL R0, (R0)	
01A8	C7			50 D0 00027		MOVL R0, 424(R7)	: 0775
	50	0000G		CF D0 0002C		MOVL CURRENT_UCB, R0	: 0777
38	A0	00080018		8F C8 00031		BISL2 #524312, 56(R0)	: 0779
	51	00000000G		9F D0 00039		MOVL @#SCH\$GL PCBVEC, R1	: 0783
	50	0000G		CF D0 00040		MOVL IO_PACKET, R0	
	50			0C C0 00045		ADDL2 #12, R0	
	50			60 3C 00048		MOVZWL (R0), R0	
	50		6140	D0 0004B		MOVL (R1)[R0], PCB	: 0784
	56	0080		C0 D0 0004F		MOVL 128(PCB), JIB	: 0785
01B0	C7	0C	A6	0C 28 00054		MOVC3 #12, 12(JIB), 432(R7)	: 0786
01BC	C7	18	A6	08 28 0005B		MOVC3 #8, 24(JIB), 444(R7)	: 0787
				04 00062		RET	

; Routine Size: 99 bytes, Routine Base: \$CODE\$ + 0139


```

: 408 0788 1 ROUTINE CANCEL_IO : COMMON_CALL NOVALUE =
: 409 0789 1
: 410 0790 1 ++
: 411 0791 1
: 412 0792 1 FUNCTIONAL DESCRIPTION:
: 413 0793 1 This routine sets the cancel io indicator if a file is accessed.
: 414 0794 1
: 415 0795 1 CALLING SEQUENCE:
: 416 0796 1 CANCEL_IO()
: 417 0797 1
: 418 0798 1 INPUT PARAMETERS:
: 419 0799 1 None
: 420 0800 1
: 421 0801 1 IMPLICIT INPUTS:
: 422 0802 1 CURRENT_VCB - address of current volume control block
: 423 0803 1
: 424 0804 1 OUTPUT PARAMETERS:
: 425 0805 1 None
: 426 0806 1
: 427 0807 1 IMPLICIT OUTPUTS:
: 428 0808 1 None
: 429 0809 1
: 430 0810 1 ROUTINE VALUE:
: 431 0811 1 None
: 432 0812 1
: 433 0813 1 SIDE EFFECTS:
: 434 0814 1 None
: 435 0815 1
: 436 0816 1 USER ERRORS:
: 437 0817 1 None
: 438 0818 1
: 439 0819 1 --
: 440 0820 1
: 441 0821 2 BEGIN
: 442 0822 2
: 443 0823 2 EXTERNAL REGISTER
: 444 0824 2 COMMON_REG;
: 445 0825 2
: 446 0826 2 IF .CURRENT_VCB[VCB$L_WCB] NEQ 0
: 447 0827 2 OR
: 448 0828 2 .CURRENT_VCB[VCB$V_WAIREWIND]
: 449 0829 2 OR
: 450 0830 2 .CURRENT_VCB[VCB$V_WAIMOUVOL]
: 451 0831 2 THEN
: 452 0832 2
: 453 0833 2 ! remember that cancel was issued
: 454 0834 2 !
: 455 0835 2 CURRENT_VCB[VCB$V_CANCELIO] = 1;
: 456 0836 2
: 457 0837 1 END;
```

0000 00000 CANCEL_IO:
.WORD Save nothing

; 0788

ACPCTR
V04-000

E 11
16-Sep-1984 02:08:09
14-Sep-1984 12:46:31

VAX-11 Bliss-32 V4.0-742
[MTAACP.SRC]ACPCTR.B32;1

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			38	AB	D5	00002	TSTL	56(CURRENT_VCB)	:	0826
				0A	12	00005	BNEQ	1\$:	
05	0B	AB		03	E0	00007	BBS	#3, 11(CURRENT_VCB), 1\$:	0828
04	0B	AB		02	E1	0000C	BBC	#2, 11(CURRENT_VCB), 2\$:	0830
	0B	AB		20	88	00011 1\$:	BISB2	#32, 11(CURRENT_VCB)	:	0835
				04	00015 2\$:		RET		:	0837

; Routine Size: 22 bytes, Routine Base: \$CODE\$ + 019C

; 458 0838 1


```

: 460      0839 1 GLOBAL ROUTINE DO_CANCEL : COMMON_CALL NOVALUE =
: 461      0840 1
: 462      0841 1 !++
: 463      0842 1
: 464      0843 1 FUNCTIONAL DESCRIPTION:
: 465      0844 1     This routine cancels all blocked io and acp functions.
: 466      0845 1
: 467      0846 1 CALLING SEQUENCE:
: 468      0847 1     DO_CANCEL(), called in kernel mode
: 469      0848 1
: 470      0849 1 INPUT PARAMETERS:
: 471      0850 1     None
: 472      0851 1
: 473      0852 1 IMPLICIT INPUTS:
: 474      0853 1     CURRENT_VCB - address of current volume control block
: 475      0854 1     USER_STATUS - contains error code which blocked io should be returned with
: 476      0855 1
: 477      0856 1 OUTPUT PARAMETERS:
: 478      0857 1     USER_STATUS - reset to normal status
: 479      0858 1
: 480      0859 1 IMPLICIT OUTPUTS:
: 481      0860 1     None
: 482      0861 1
: 483      0862 1 ROUTINE VALUE:
: 484      0863 1     None
: 485      0864 1
: 486      0865 1 SIDE EFFECTS:
: 487      0866 1     None
: 488      0867 1
: 489      0868 1 USER ERRORS:
: 490      0869 1     None
: 491      0870 1
: 492      0871 1 !--
: 493      0872 1
: 494      0873 2 BEGIN
: 495      0874 2
: 496      0875 2 EXTERNAL REGISTER
: 497      0876 2     COMMON_REG;
: 498      0877 2
: 499      0878 2 EXTERNAL ROUTINE
: 500      0879 2     CHECK_DISMOUNT : COMMON_CALL;           ! get free virtual page
: 501      0880 2
: 502      0881 2 MAP
: 503      0882 2     USER_STATUS : LONG;
: 504      0883 2
: 505      0884 2 LOCAL
: 506      0885 2     ABD      : REF BBLOCKVECTOR [, ABD$C_LENGTH],
: 507      0886 2     !
: 508      0887 2     ! address containing information about blocked request
: 509      0888 2     !
: 510      0889 2     BLOCK_PAGE,
: 511      0890 2     FUNCTION      : BLOCK [1],
: 512      0891 2     PACKET : REF BBLOCK,           ! address of io blocked request
: 513      0892 2     WINDOW;           ! address of window for this request
: 514      0893 2
: 515      0894 2     ! If the process does not have a virtual page containing the information
: 516      0895 2     ! describing the blocked request then have fatal error
```



```

517 0896 2
518 0897 2
519 0898 2
520 0899 2
521 0900 2
522 0901 2
523 0902 2
524 0903 2
525 0904 2
526 0905 2
527 0906 2
528 0907 2
529 0908 2
530 0909 2
531 0910 2
532 0911 2
533 0912 2
534 0913 2
535 0914 2
536 0915 2
537 0916 2
538 0917 2
539 0918 2
540 0919 2
541 0920 2
542 0921 2
543 0922 2
544 0923 2
545 0924 2
546 0925 2
547 0926 4
548 0927 4
549 0928 4
550 0929 4
551 0930 4
552 0931 4
553 0932 4
554 0933 4
555 0934 5
556 0935 5
557 0936 5
558 0937 5
559 0938 5
560 0939 5
561 0940 5
562 0941 4
563 0942 4
564 0943 4
565 0944 5
566 0945 5
567 0946 5
568 0947 2
569 0948 2
570 0949 2
571 0950 2
572 0951 2
573 0952 2

!
IF .CURRENT_VCB[VCBSL_VPFL] EQLA .CURRENT_VCB[VCBSL_VPBL]
THEN
    BUG_CHECK(NOBPVCB);

    REMQUE(.CURRENT_VCB[VCBSL_VPBL], BLOCK_PAGE);
    PACKET = (.BLOCK_PAGE + VVP$K_LENGTH * IO_PACKET - USER_STATUS);
    RET FREE_PAGE(.BLOCK_PAGE, FALSE); ! return page(s) to virtual memory
    RETURN_ACL_ERR(); ! return all blocked physical io in error

IF .CURRENT_VCB[VCBSV_WAIMOUVOL]
OR
.CURRENT_VCB[VCBSV_WAIREWIND]
THEN
    TERMINATE_VOL(.CURRENT_VCB[VCBSL_WCB]);

! If fib descriptor present, zero count so the fib is not returned.
! complete i/o.
!

IF .PACKET NEQ 0
THEN
    BEGIN
        !
        !
        IF .PACKET[IRPSV_COMPLX]
        THEN
            BEGIN
                FUNCTION = .PACKET[IRPSW_FUNC];
                ABD = .BBLOCK[.PACKET[IRPSL_SVAPTE], AIBSL_DESCRIPTOR];

                IF .FUNCTION[IOSV_ACCESS]
                THEN
                    ZERO_CHANNEL(.PACKET)
                ELSE
                    BEGIN
                        FUNCTION = .PACKET[IRPSV_FCODE];

                        IF .FUNCTION NEQ IOS_DEACCESS
                        THEN
                            ABD[ABD$C_WINDOW, ABD$W_COUNT] = 0;

                        END;

                        ABD[ABD$C_FIB, ABD$W_COUNT] = 0;
                        END;

                    IO_DONE(.PACKET);
                END;

                ! return stalled i/o with cancel
                !
            WHILE 1
```

```

574      0953      2      DO
575      0954      BEGIN
576      0955      LOCAL
577      0956      SAVE_STATUS;
578      0957
579      0958      IF REMQUE(.BBLOCK[.CURRENT_VCB[VCBSL_VPFL], VVP$STALLIOFL], PACKET)
580      0959      THEN
581      0960      EXITLOOP;
582      0961
583      0962      IF .PACKET[IRPSV_COMPLX]
584      0963      THEN
585      0964      BEGIN
586      0965      FUNCTION = .PACKET[IRPSW_FUNC];
587      0966      ABD = .BBLOCK[.PACKET[IRPSL_SVAPTE], AIB$DESCRPT];
588      0967
589      0968      IF .FUNCTION[IOSV_ACCESS]
590      0969      THEN
591      0970      ZERO_CHANNEL(.PACKET)
592      0971
593      0972      ELSE
594      0973      ABD[ABD$C_WINDOW, ABD$W_COUNT] = 0;
595      0974
596      0975      ABD[ABD$C_FIB, ABD$W_COUNT] = 0;
597      0976      END;
598      0977
599      0978      ! If this is a cancel request, return is with normal status
600      0979      !
601      0980      SAVE_STATUS = .USER_STATUS;
602      0981      FUNCTION = .PACKET[IRPSV_FCODE];
603      0982
604      0983      IF .FUNCTION EQL IOS_ACPCONTROL
605      0984      AND
606      0985      NOT .PACKET[IRPSV_VIRTUAL]
607      0986      THEN
608      0987      USER_STATUS = 1;
609      0988
610      0989      IO_DONE(.PACKET);
611      0990      USER_STATUS = .SAVE_STATUS;
612      0991      END;
613      0992
614      0993      ! If no file is accessed, turn off cancel I/O bit now.
615      0994      !
616      0995
617      0996      IF .CURRENT_VCB[VCBSL_WCB] EQL 0
618      0997      THEN
619      0998      BEGIN
620      0999      CURRENT_VCB [ VCB$V_CANCELIO ] = 0;
621      1000
622      1001      ! If while the cancel I/O was pending a dismount could have been issued
623      1002      ! and refused waiting for cancel I/O to complete. Check for dismount.
624      1003      !
625      1004      CHECK_DISMOUNT ( .BBLOCK [ .CURRENT_VCB[VCBSL_RVT], RVT$UCBLST ] );
626      1005      END;
627      1006
628      1007      CURRENT_VCB[VCBSV_WAIREWIND] = 0;      ! no longer waiting
629      1008      CURRENT_VCB[VCBSV_WAIUSRLBL] = 0;
630      1009      CURRENT_VCB[VCBSV_WAIMOUVOL] = 0;
```

```
! cancel function should complete normally
```

[illegible]

ACPCTR
V04-000

J 11
16-Sep-1984 02:08:09
14-Sep-1984 12:46:31

VAX-11 Bliss-32 V4.0-742
[MTAACP.SRC]ACPCTR.B32;1

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03	2A	A2	08	12	000B2	BNEQ	11\$:	0985
		66	04	E0	000B4	BBS	#4, 42(PACKET), 11\$:	0987
			01	D0	000B9	MOVL	#1, USER_STATUS	:	0989
	0000G	CF	52	DD	000BC	PUSHL	PACKET	:	0990
		66	01	FB	000BE	CALLS	#1, IO_DONE	:	0952
			54	D0	000C3	MOVL	SAVE_STATUS, USER_STATUS	:	0996
			B3	11	000C6	BRB	7\$:	0999
			38	AB	D5 000C8	TSTL	56(CURRENT_VCB)	:	1004
			10	12	000CB	BNEQ	13\$:	1009
	0B	AB	20	8A	000CD	BICB2	#32, 11(CURRENT_VCB)	:	1010
		50	44	AB	D0 000D1	MOVL	32(CURRENT_VCB), R0	:	1011
	0000G	CF	A0	DD	000D5	PUSHL	68(R0)	:	
			01	FB	000D8	CALLS	#1, CHECK_DISMOUNT	:	
	0B	AB	1C	8A	000DD	BICB2	#28, 11(CURRENT_VCB)	:	
		66	01	B0	000E1	MOVW	#1, USER_STATUS	:	
				04	000E4	RET		:	

; Routine Size: 229 bytes, Routine Base: \$CODE\$ + 01B2

; 633 1012 1

```

635 1013 1 GLOBAL ROUTINE TERMINATE_VOL (WINDOW) : COMMON_CALL NOVALUE =
636 1014 1
637 1015 1 ++
638 1016 1
639 1017 1 FUNCTIONAL DESCRIPTION:
640 1018 1 This routine terminates a mount request. If a file is open
641 1019 1 then the user must close the file. The write indicator is cleared so
642 1020 1 that eof trailers are not written on deaccess. The volume is marked
643 1021 1 not mounted and the volume position is marked ambiguous.
644 1022 1
645 1023 1 CALLING SEQUENCE:
646 1024 1 TERMINATE_MOUNT(WINDOW), called in kernel mode
647 1025 1
648 1026 1 INPUT PARAMETERS:
649 1027 1 ARG1 - address of window for request
650 1028 1
651 1029 1 IMPLICIT INPUTS:
652 1030 1 None
653 1031 1
654 1032 1 OUTPUT PARAMETERS:
655 1033 1 None
656 1034 1
657 1035 1 IMPLICIT OUTPUTS:
658 1036 1 None
659 1037 1
660 1038 1 ROUTINE VALUE:
661 1039 1 None
662 1040 1
663 1041 1 SIDE EFFECTS:
664 1042 1 None
665 1043 1
666 1044 1 USER ERRORS:
667 1045 1 None
668 1046 1
669 1047 1 --
670 1048 1
671 1049 2 BEGIN
672 1050 2
673 1051 2 EXTERNAL ROUTINE
674 1052 2 GET_CCB;
675 1053 2
676 1054 2 EXTERNAL REGISTER
677 1055 2 COMMON_REG;
678 1056 2
679 1057 2 MAP
680 1058 2 WINDOW : REF BBLOCK; ! address of window control block
681 1059 2
682 1060 2 LOCAL
683 1061 2 MVL_ENTRY : REF BBLOCK; ! address of MVL entry
684 1062 2
685 1063 2 IF .WINDOW NEQ 0
686 1064 2 THEN ! a file is open
687 1065 2 BEGIN
688 1066 2 CURRENT_VCB[VCB$V_NOWRITE] = 1;
689 1067 2 CURRENT_VCB[VCB$V_MUSTCLOSE] = 1; ! the file must be closed
690 1068 2 END;
691 1069 2
```

```
! end of routine TERMINATE_MOUNT
```

PC	OP	EA	DATA	COMMENT
0000	04	AC	D5 00002	
0004	05	13	00005	
0008	C0	8F 88	00007	
000C	02	E1	0000C	1\$:
0010	2F	AB 9A	00011	
0014	34	BB40	7E 00015	
0018	1C	C0	0001A	
001C	01	8A	0001D	
0020	AB	00000044	8F C1 00021	
0024	50	0E	AB 3C 0002A	
0028	52	6240	DD 0002E	
002C	0000G	CF	DD 00032	
0030	01	FB	00036	
0034	52	DD	0003B	
0038	7E	7C	0003E	
003C	7E	7C	00040	
0040	7E	7C	00042	
0044	7E	7C	00044	
0048	7E	D4	00046	
004C	7E	8F 3C	00048	
0050	0000G	CF	DD 0004D	
0054	07	A0		
0058	0B	AB		
005C	0B	AB		
0060	50			
0064	50			
0068	50			
006C	07	A0		
0070	20	AB		
0074		50		
0078		52		
007C	0000G	CF		
0080		60		
0084				
0088				
008C				
0090				
0094				
0098				
009C				
00A0				
00A4				
00A8				
00AC				
00B0				
00B4				
00B8				
00BC				
00C0				
00C4				
00C8				
00CC				
00D0				
00D4				
00D8				
00DC				
00E0				
00E4				
00E8				
00EC				
00F0				
00F4				
00F8				
00FC				
0100				
0104				
0108				
010C				
0110				
0114				
0118				
011C				
0120				
0124				
0128				
012C				
0130				
0134				
0138				
013C				
0140				
0144				
0148				
014C				
0150				
0154				
0158				
015C				
0160				
0164				
0168				
016C				
0170				
0174				
0178				
017C				
0180				
0184				
0188				
018C				

00000000G	9F	7E	D4	00051	CLRL	-(SP)
		0C	FB	00053	CALLS	#12, @#SYSS\$QIOW
		52	DD	0005A	PUSHL	UCB
		7E	D4	0005C	CLRL	-(SP)
0000G	CF	02	FB	0005E	CALLS	#2, SEND_ERRLOG
		2F	AB	94 00063	CLRB	47(CURRENT_VCB)
		24	AB	D4 00066	CLRL	36(CURRENT_VCB)
				04 00069	RET	

1091
1092
1096
1099

; Routine Size: 106 bytes, Routine Base: \$CODES + 0297

: 722 1100 1

```

: 724      1101 1 GLOBAL ROUTINE MTA_MOUNT : NOPRES NOVALUE =
: 725      1102 1
: 726      1103 1 ++
: 727      1104 1
: 728      1105 1 FUNCTIONAL DESCRIPTION:
: 729      1106 1     This routine checks the validity of the mount request and
: 730      1107 1     sets up a virtual page for this volume set.
: 731      1108 1
: 732      1109 1
: 733      1110 1 CALLING SEQUENCE:
: 734      1111 1     MTA_MOUNT()
: 735      1112 1
: 736      1113 1 INPUT PARAMETERS:
: 737      1114 1     None
: 738      1115 1
: 739      1116 1 IMPLICIT INPUTS:
: 740      1117 1     CURRENT_UCB      - address of current unit control block
: 741      1118 1     QUEUE_HEAD      - address of queue head for ACP
: 742      1119 1
: 743      1120 1 OUTPUT PARAMETERS:
: 744      1121 1     None
: 745      1122 1
: 746      1123 1 IMPLICIT OUTPUTS:
: 747      1124 1     one page of virtual memory is devoted to this volume set
: 748      1125 1
: 749      1126 1 ROUTINE VALUE:
: 750      1127 1     None
: 751      1128 1
: 752      1129 1 SIDE EFFECTS:
: 753      1130 1     None
: 754      1131 1
: 755      1132 1 --
: 756      1133 1
: 757      1134 2 BEGIN
: 758      1135 2
: 759      1136 2 EXTERNAL
: 760      1137 2     CURRENT_UCB      : REF BBLOCK,
: 761      1138 2     QUEUE_HEAD      : REF BBLOCK;
: 762      1139 2
: 763      1140 2 EXTERNAL REGISTER
: 764      1141 2     COMMON_REG;
: 765      1142 2
: 766      1143 2 IF NOT .BBLOCK[CURRENT_UCB[UCB$L_DEVCHAR], DEV$V_SQD]
: 767      1144 2 OR
: 768      1145 2     .QUEUE_HEAD[AQB$B_ACPTYPE] NEQ AQB$K_MTA
: 769      1146 2 THEN
: 770      1147 2     ERR_EXIT(SS$_WRONGACP);
: 771      1148 2
: 772      1149 2 KERNEL_CALL(MOUNT);
: 773      1150 1 END;

```

! end of routine MTA_MOUNT

50 0000G CF 0000 0000
DO 00002.ENTRY MTA_MOUNT, Save nothing
MOVL CURRENT_UCB, R0: 1101
: 1143

ACPCTR
V04-000

B 12
16-Sep-1984 02:08:09
14-Sep-1984 12:46:31

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[MTAACP.SRC]ACPCTR.B32;1

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0B	38	A0	0000G	05	E1	00007	BBC	#5, 56(R0), 1\$:	1145
		50	15	CF	D0	0000C	MOVL	QUEUE HEAD, R0	:	
		03		A0	91	00011	CMPB	21(R0), #3	:	
			031C	04	13	00015	BEQL	2\$:	
				8F	BF	00017	CHMU	#796	:	1147
				7E	D4	0001B	CLRL	-(SP)	:	1149
				5E	DD	0001D	PUSHL	SP	:	
			FE15	CF	9F	0001F	PUSHAB	MOUNT	:	
			00000000G	03	FB	00023	CALLS	#3, @#SYSS\$CMKRNL	:	
				04	0002A		RET		:	1150

; Routine Size: 43 bytes, Routine Base: \$CODE\$ + 0301

; 774 1151 1


```
: 776      1152 1 ROUTINE STALL : COMMON_CALL NOVALUE =
: 777      1153 1
: 778      1154 1 ++
: 779      1155 1
: 780      1156 1 FUNCTIONAL DESCRIPTION:
: 781      1157 1
: 782      1158 1     This routine puts the cancel request packet on the stalled queue.
: 783      1159 1
: 784      1160 1 CALLING SEQUENCE:
: 785      1161 1     STALL(), called in KERNEL mode
: 786      1162 1
: 787      1163 1 INPUT PARAMETERS:
: 788      1164 1     None
: 789      1165 1
: 790      1166 1 IMPLICIT INPUTS:
: 791      1167 1     None
: 792      1168 1
: 793      1169 1 OUTPUT PARAMETERS:
: 794      1170 1     None
: 795      1171 1
: 796      1172 1 IMPLICIT OUTPUTS:
: 797      1173 1     cancel request queued to stall I/O queue
: 798      1174 1
: 799      1175 1 ROUTINE VALUE:
: 800      1176 1     None
: 801      1177 1
: 802      1178 1 SIDE EFFECTS:
: 803      1179 1     None
: 804      1180 1
: 805      1181 1 --
: 806      1182 1
: 807      1183 2 BEGIN
: 808      1184 2
: 809      1185 2 EXTERNAL
: 810      1186 2     IO_PACKET      : REF BBLOCK;          ! address of current I/O packet
: 811      1187 2
: 812      1188 2 EXTERNAL REGISTER
: 813      1189 2     COMMON_REG;
: 814      1190 2
: 815      1191 2 LOCAL
: 816      1192 2     VPAGE      : REF BBLOCK;
: 817      1193 2
: 818      1194 2 VPAGE = .CURRENT_VCB[VCB$$_VPFL];
: 819      1195 2 INSQUE(.IO_PACKET, .VPAGE[VP$$_STALLIOBL]);
: 820      1196 2 IO_PACKET = 0;
: 821      1197 1 END;
```

```
01A8 50      3C AB 0000G DF 0E 0000G 0000G CF D4 0000D 04 00011 STALL: .WORD Save nothing : 1152
MOV 60(CURRENT_VCB), VPAGE : 1194
INS @IO_PACKET, @424(VPAGE) : 1195
CLR IO_PACKET : 1196
RET : 1197
```

; Routine Size: 18 bytes, Routine Base: \$CODE\$ + 032C

```
; 822      1198 1 END
; 823      1199 1
; 824      1200 0 ELUDOM
```

PSECT SUMMARY

Name	Bytes	Attributes
\$CODE\$	830	NOVEC,NOWRT, RD , EXE,NOSHR, LCL, REL, CON,NOPI,ALIGN(2)

Library Statistics

File	Symbols		Pages Mapped	Processing Time
	Total	Loaded Percent		
_\$255\$DUA28:[SYSLIB]LIB.L32;1	18619	74 0	1000	00:01.9

COMMAND QUALIFIERS

; BLISS/CHECK=(FIELD,INITIAL,OPTIMIZE)/LIS=LIS\$:ACPCTR/OBJ=OBJ\$:ACPCTR MSRC\$:ACPCTR/UPDATE=(ENH\$:ACPCTR)

```
; Size:      830 code + 0 data bytes
; Run Time:   00:20.6
; Elapsed Time: 00:56.8
; Lines/CPU Min: 3490
; Lexemes/CPU-Min: 19902
; Memory Used: 158 pages
; Compilation Complete
```


0253

AH-BT13A-SE
VAX/VMS V4.0

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